

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1216593

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15		
Name:	Spot Description:		
Address 1:	SecTwpS. R		
Address 2:	Feet from		
City: State: Zip:+	Feet from _ East / _ West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:		
□ Oil □ WSW □ SHOW   □ Gas □ D&A □ ENHR □ SIGW   □ OG □ GSW □ Temp. Abd.   □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.):    If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	feet depth to:w/sx cmt.		
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Plug Back Conv. to GSW Conv. to Producer  Commingled Permit #:  Dual Completion Permit #:  SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:		
☐ ENHR         Permit #:           ☐ GSW         Permit #:	Operator Name:		
GSW Permit #:	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter         Sec.         Twp.         S. R.         East         West           County:         Permit #:		

#### **AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

**Submitted Electronically** 

KCC Office Use ONLY		
Confidentiality Requested		
Date:		
Confidential Release Date:		
Wireline Log Received		
Geologist Report Received		
UIC Distribution		
ALT I III Approved by: Date:		

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	ronic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 0 li 20 lio										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR.   F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	I Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			

Form	ACO1 - Well Completion		
Operator	Bird Dog Oil, LLC		
Well Name	Lakin-Engelhardt 1-13		
Doc ID	1216593		

## All Electric Logs Run

DIL	
POR	
MEL	
Sonic	



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19207

**DST#:1** 

ATTN: Adam Nighswinger

Test Start: 2014.03.03 @ 00:20:00

### GENERAL INFORMATION:

Time Tool Opened: 06:12:00

Time Test Ended: 11:20:00

Formation:

LKC "A-B"

Deviated:

Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Shane Konzem

Unit No:

3330/30/Great Bend

Reference Elevations:

1788.00 ft (KB)

1778.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth: 3036.00 ft (KB) To 3088.00 ft (KB) (TVD)

3088.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 6806

Press@RunDepth:

Outside 936.46 psig @

3085.60 ft (KB)

2014.03.03

Capacity: Last Calib.: 5000.00 psig

Start Date: Start Time: 2014.03.03 00:20:00 End Date: End Time:

11:21:00

Time On Btm:

2014.03.03 2014.03.03 @ 06:05:30

Time Off Btm:

2014.03.03 @ 09:06:00

TEST COMMENT: 1st Open/

1st Shut In/ 2nd Open/

15 Minutes. Strong blow built to bottom of 5 gallon bucket od deisel in 30 seconds. 30 Minutes. Blow back built to bottom of 5 gallon bucket then died back to 9 inches. 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds. Gas to surface in 7Min.

2nd Shut In/

90 Minutes. Blow back built to bottom of 5 gallon bucket then died back to 6 inches.

Г			Pressure vs. Time	- 1
		COS	Promote (SEO Temperature	t
	1000			100
	1280 -	•		<b>130</b>
				-
(Bed)	1000 -			Temper
Preseure (pelg)	700 -			Tamparefure (deg F)
	<b>630</b> -	<u> </u>	<del>-    -  -  -  -  -  -  -  -  -  -  </del>	. J
	250 -			39
				29
	-8			-
	ir 2014	3Mm	3764 OFM SPEE	

	PRESSURE SUMMARY			
	Time	Pressure	Temp	Annotation
30	(Min.)	(psig)	(deg F)	
	0	1508.73	100.28	Initial Hydro-static
•	6	176.21	101.10	Open To Flow (1)
•	20	148.77	101.09	Shut-In(1)
• _	52	930.36	101.51	End Shut-In(1)
adus,	53	177.65	101.32	Open To Flow (2)
Temperature (deg F)	82	224.74	101.66	Shut-In(2)
9 6	179	936.46	103.45	End Shut-In(2)
. J	181	1472.65	104.28	Final Hydro-static
330				ø
20				
10				
		1		

### Recovery

Length (ft)	Description	Volume (bbl)
209.00	20% Gas, 80% Mud	2.93

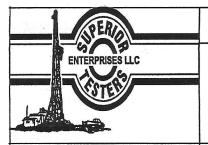
### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	10.80	92.31
Last Gas Rate	0.38	13.50	102.20
Max. Gas Rate	0.38	17.00	115.03

Superior Testers Enterprises LLC

Ref. No: 19207

Printed: 2014.03.03 @ 12:39:52



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19208

DST#: 2

ATTN: Adam Nighswinger

Test Start: 2014.03.04 @ 06:45:00

### **GENERAL INFORMATION:**

Time Tool Opened: 09:01:30

Formation:

LKC "H-J"

Deviated:

Interval:

No Whipstock: ft (KB)

Test Type: Tester:

Conventional Bottom Hole (Initial)

Unit No:

Shane Konzem 3330/30/Great Bend

Time Test Ended: 11:28:30

3174.00 ft (KB) To 3240.00 ft (KB) (TVD)

Reference Elevations:

1788.00 ft (KB)

Total Depth:

3240.00 ft (KB) (TVD)

1778.00 ft (CF) 10.00 ft

Hole Diameter:

7.88 inches Hole Condition: Poor

KB to GR/CF:

Serial #: 6806 Press@RunDepth: Outside

101.26 psig @

3237.75 ft (KB)

Capacity: Last Calib.: 5000.00 psig

Start Date: Start Time: 2014.03.04 06:45:00 End Date: End Time:

2014.03.04 11:28:30

Time On Btm:

2014.03.04

Time Off Btm:

2014.03.04 @ 08:57:30 2014.03.04 @ 10:03:30

TEST COMMENT: 1st Open/

15 Minutes. Weak blow built to 1 inch into deisel.

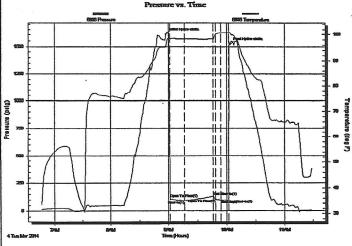
1st Shut In/

30 Minutes. No blow back,

2nd Open/

5 Minutes. Weak blow built to 1/2 inch into deisel. Pulled test per Geo.

2nd Shut In/



	PRESSURE SUMMARY				
1	Time	Pressure	Temp	Annotation	
•	(Min.)	(psig)	(deg F)		
	0	1603.67	95.88	Initial Hydro-static	
'	4	114.18	98.48	Open To Flow (1)	
	19	94.35	98.40	Shut-In(1)	
-	49	132.50	98.33	End Shut-In(1)	
ochue	51	104.65	100.09	Open To Flow (2)	
Temperature (deg F;	57	97.16	100.76	Shut-In(2)	
60	65	101.26	100.84	End Shut-In(2)	
3	66	1513.80	100.87	Final Hydro-static	
				и	
,				₩	
)					

#### Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% Mud	0.21
	T	

Gas	Rates

i	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19209

**DST#:3** 

ATTN: Adam Nighswinger

Test Start: 2014.03.04 @ 22:55:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 01:40:30

Time Test Ended: 04:08:30

Formation:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Test Type: Tester:

Conventional Bottom Hole (Initial)

Shane Konzem

Unit No:

3330/30/Great Bend

3294.00 ft (KB) To 3333.00 ft (KB) (TVD)

Interval: Total Depth: Hole Diameter:

3333.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

Reference Elevations:

1788.00 ft (KB) 1778.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 6806 Press@RunDepth:

Outside

1015.51 psig @

3330.00 ft (KB)

Capacity:

5000.00 psig

Start Date: Start Time:

2014.03.04 22:55:00 End Date: End Time: 2014.03.05 04:07:00

Last Calib.:

2014.03.05

Time On Btm: Time Off Btm: 2014.03.05 @ 01:35:30 2014.03.05 @ 02:33:30

TEST COMMENT: 1st Open/

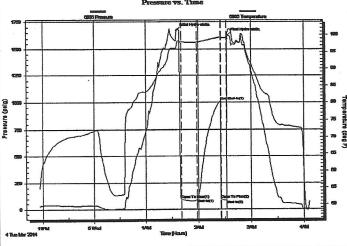
15 Minutes. Weak blow built to 1 inch into bucket of deisel.

1st Shut In/ 30 Minutes. No blow back.

2nd Open/

10 Minutes. Weak surface blow, flushed tool, had good flush bubbles and maintained weak surface

blow. Pulled tool per Geo.



		PI	RESSUR	E SUMMARY
1	Time	Pressure	Temp	Annotation
.	(Min.)	(psig)	(deg F)	
	0	1671.42	96.44	Initial Hydro-static
	5	96.47	98.03	Open To Flow (1)
	23	97.22	98.00	Shut-In(1)
_	50	1015.51	99.30	End Shut-In(1)
ome o	51	97.10	99.11	Open To Flow (2)
Temperature (deg F)	57	82.86	99.29	Shut-In(2)
(de	58	1628.55	101.33	Final Hydro-static
3				
	l	i .	1	

### Recovery

Length (ft)	Description	Volume (bbl)
0.50	100% clean oil	0.01
4.50	Spotted Oil cut 100% Mud	0.06

Gas	Rates

Gas Rate (Mcf/d) Choke (inches) Pressure (psig)

Superior Testers Enterprises LLC

Ref. No: 19209

Printed: 2014.03.05 @ 05:32:22



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19210

DST#:4

ATTN: Adam Nighswinger

Test Start: 2014.03.05 @ 10:45:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 12:27:30

Time Test Ended: 17:36:00

Formation:

Arbuckle

Deviated:

Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Shane Konzem

Unit No:

3330/30/Great Bend

Interval:

Hole Diameter:

3333.00 ft (KB) To 3341.00 ft (KB) (TVD)

Total Depth: 3341.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

Reference Elevations:

1788.00 ft (KB)

1778.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8524 Press@RunDepth: Outside

1110.72 psig @

3338.00 ft (KB)

Capacity:

5000.00 psig

Start Date:

2014.03.05

End Date:

2014.03.05

Last Calib.:

2014.03.05

Start Time:

10:45:00

End Time:

17:34:30

Time On Btm:

2014.03.05 @ 12:21:30

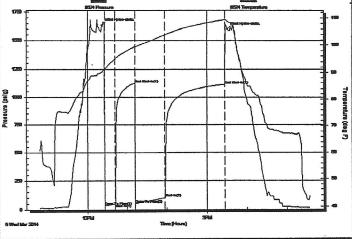
Time Off Btm: 2014.03.05 @ 15:30:30

TEST COMMENT: 1st Open/

15 Minutes. Fair blow built to 9 inches into bucket of deisel.

1st Shut In/ 30 Minutes. Weak surface blow back.

2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 23 minutes. 2nd Shut In/ 90 Minutes. Weak surface blow back that died out 60 minutes into shut in.



		PI	RESSUR	RE SUMMARY
. ]	Time	Pressure	Temp	Annotation
-	(Min.)	(psig)	(deg F)	
	0	1633.09	90.19	Initial Hydro-static
	5	33.92	91.20	Open To Flow (1)
	21	48.45	94.83	Shut-In(1)
_	51	1120.89	99.39	End Shut-In(1)
Temperature (deg F)	51	50.75	99.16	Open To Flow (2)
eruter	96	97.84	103.70	Shut-In(2)
9 6	186	1110.72	109.27	End Shut-In(2)
	189	1597.79	108.64	Final Hydro-static
•				
-				

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 Feet 100% Gas	0.00
137.00	25% Gas, 75% Clean Oil.	1.92
63.00	40% Mud, 15% Water, 45% Oil	0.88
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .21 @ 40 degrees	0.00
0.00	Oil gravity was 42 corrected.	0.00

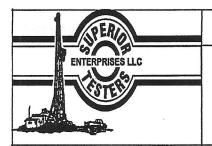
Gas	Rates
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Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC

Ref. No: 19210

Printed: 2014.03.05 @ 18:59:48



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19211

DST#:5

ATTN: Adam Nighswinger

Test Start: 2014.03.05 @ 23:30:00

#### GENERAL INFORMATION:

Time Tool Opened: 01:47:30

Time Test Ended: 06:16:30

Formation:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Shane Konzem

Unit No:

3330/30/Great Bend

3341.00 ft (KB) To 3347.00 ft (KB) (TVD) Interval:

Total Depth: Hole Diameter: 3347.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor

Reference Elevations:

1788.00 ft (KB) 1778.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8524

Press@RunDepth:

Outside

1147.30 psig @

3344.00 ft (KB)

Capacity:

psig

Start Date: Start Time: 2014,03.05 23:30:00 End Date: End Time: 2014.03.06 06:16:00 Last Calib .:

1899.12.30

Time On Btm: Time Off Btm: 2014.03.06 @ 01:43:00 2014.03.06 @ 04:51:00

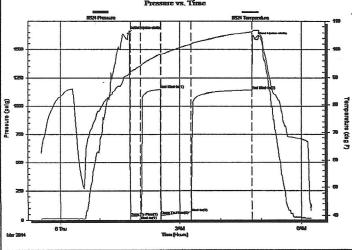
TEST COMMENT: 1st Open/

15 Minutes. Fair blow built to 4 inches into deisel.

1st Shut In/ 2nd Open/ 30 Minutes. Weak surface blow back. 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 35 minutes.

2nd Shut In/

90 Minutes. Weak surface blow back that died after 45 minutes.



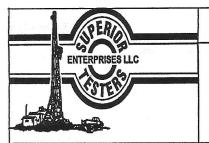
#### PRESSURE SUMMARY Time Annotation Pressure Temp (Min.) (psig) (deg F) 0 1637.52 Initial Hydro-static 90.75 30.04 Open To Flow (1) 4 91.67 19 37.33 94.24 Shut-In(1) End Shut-In(1) 49 1154.23 98.37 50 38.61 Open To Flow (2) 98.24 66.90 94 101.83 Shut-In(2) 1147.30 184 106.39 End Shut-In(2) 1591.43 106.81 Final Hydro-static

#### Recovery Description Volume (bbl) Length (ft) 0.00 189 foot 100% gas 0.00 1.77 100% Clean gassy oil 126.00 Oil gravity was 42 corrected 0.00 0.00

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
	Choke (inches)	Choke (inches) Pressure (psig)

Printed: 2014.03.06 @ 07:38:07

Gas Rates



Bird Dog Oil, LLC

13/19s/11w/Barton

1801 Broadway Ste 450, Denver Co 80202

Lakin-Engelhardt1-13

Job Ticket: 19212

DST#: 6

ATTN: Adam Nighswinger

Test Start: 2014.03.06 @ 15:00:00

### **GENERAL INFORMATION:**

Time Tool Opened: 17:11:30

Time Test Ended: 22:00:00

Formation:

Arbuckle

Deviated:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Shane Konzem

Unit No:

3330/30/Great Bend

Interval:

3347.00 ft (KB) To 3357.00 ft (KB) (TVD)

3357.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

7,88 inches Hole Condition: Poor

Reference Elevations:

1788.00 ft (KB) 1778.00 ft (CF)

KB to GR/CF:

10.00 ft

Serial #: 8524

Press@RunDepth:

Outside

1159.81 psig @ 2014.03.06

3354.00 ft (KB)

Capacity:

5000.00 psig

Start Date: Start Time:

15:00:00

End Date: End Time: 2014.03.06 21:59:30 Last Calib.:

2014.03.06

Time On Btm: Time Off Btm: 2014.03.06 @ 17:07:30 2014.03.06 @ 20:21:00

TEST COMMENT: 1st Open/

15 Minutes. Fair blow built to 6 inches into deisel.

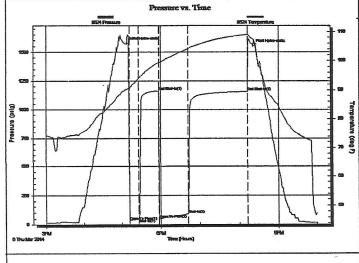
1st Shut In/

30 Minutes. No blow back.

2nd Open/

45 Minutes. Fair blow built to bottom of 5 gallon bucket of deisel in 30 minutes.

2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMA	ARY
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J				
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1570.62	90.27	Initial Hydro-static
	5	33.88	90.56	Open To Flow (1)
	19	46.99	93.95	Shut-In(1)
-	50	1165.97	99.45	End Shut-In(1)
	50	48.69	99.34	Open To Flow (2)
-	95	89.15	104.07	Shut-In(2)
	185	1159.81	109.08	End Shut-In(2)
-	194	1549.56	107.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 foot 100% gas	0.00
87.00	100% Clean Oil	1.22
63.00	70% Mud, 25% water, 5% oil	0.88
0.00	Chloride recov 26000 ppm	0.00
0.00	resist recov, .21 ohms at 40 degrees	0.00
0.00	Oil gravity was 41 corrected.	0.00

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Superior Testers Enterprises LLC

Ref. No: 19212

Printed: 2014.03.06 @ 23:25:08



# TREATMENT REPORT

Customer	3710 1	7090	Lease	No.		Date		and-revined \$				
1		0/441		-13			6-6	14				
Field Order	# Station			Casing	2 5% Depti	h 3 48-75 Cour	nty B A1109	State				
Type Job	CAN		1FACE		Formation Legal Description 3 - / 9 - 4 /							
PIPE DATA PERFORATING DATA				TA FLUID	USED	TREATMENT RESUME						
Casing Size Tubing Size		ze Sho	ts/Ft	Acid 2	Acid 77554		PRESS Jel	ISIB CC /4 CF				
Depthy 48.75 Depth		Fror	n To	Pre Pad		Max Max	1,000	5 Min.				
Volume				Pad	Pad			10 Min.				
Max Press	Max Press From		n To	Frac	Frac			15 Min.				
Well Connecti	Well Connection Annulus Vol.		n To		15 mag	HHP Used		Annulus Pressure				
Plug Depth	lug Depth Packer Depth From		n To	Flush 2 U	Flush 20,5			Total Load				
Customer Re	presentative	Killy	Branum St	ation Manager		Tre	eater					
Service Units	37586		27463	19826	19860							
Driver Names	MATTE		Nurmin	1497	107							
Time	Casing Pressure	Tubing Pressur		Rate		Service Log						
8:55	(	-f	5		001	SCATION / SAFREY MEETING						
9:35			5		CASING ON BUTTON							
9:42	L.	)	and the second	**************************************	HOOK							
9:55	100		3	5	Pump							
10:13	150		65	5	mix	un cemeni						
10:15	200		Appendix for the con-	5	5 Relea		-/					
10:10	250	)	10	5	-	AT Coming Alound						
10:20	300		20.5	Anna di managan	Ply Down, Shur in Well							
					TOB COMPLETS THANK YOU!							
10	Park to											
					MIKE MATTIN							
				4.5	10 BBIS CMT TO PIT							
	Tokaso M PA	10 1 2 50 E/S						*				
167 SQ <b>4</b>							and the second					
		de de										
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## TREATMENT REPORT

	10 000	5 016	LLC	ease No.				Date	7	7	1.3.2.2.3.4		
A.	W Engel	大力, Bt.	and the V	Well #				, y, 4	) =	1 = 1			
der#	) Station	n Pla	TT		Casin	g D P. Dept	h 3326	County	BAIT	٥٨	State		
e Job		Formation Legal Description 3-/9-//											
PIPE DATA PERFORATING DATA					FLUID USED			TREATMENT RESUME					
Casing Size	Tubing Size Shots/I		Ft		-Acid=2/0 SKS.		RATE PRESS			ISIP	ISIP		
Depth <sub>3</sub> 3 2 C	Depth From		То	То		NO POS	Max		2000 100	5 Min.			
Volume 7,2	Volume	From	To		-Pad //	% GEL Min				10 Min.	10 Min.		
Max Press			То		Frac		Avg			15 Min.	15 Min.		
Well Connection	Connection Annulus Vol.		То	r's gr			HHP Used		Annulus Pressure		Pressure		
Plug Depth			То			Flush		Gas Volume		Total Load			
Customer Repr	esentative	Kolly	BIANUM	Station	Manager /	evin Go	· pley	Treater	Mi	We Mu	TTA		
Service Units	vice Units 375%		27463		19826 1986								
Driver Names	MATTRU		Kuenily		HAN	1501							
Time ∩ <sub>M</sub>	Casing Pressure	Tubing Pressure	Bbls. Pum	ped	Rate			, S	ervice Lo	og			
5:40						01 L	OA LUCATATIN / SAKTEY MOSTIC						
					0.5 gr . 10 . 10 . 10 . 10 . 10 . 10 . 10 . 1	CUP	SACUS						
6-17	100		11		5	Pume 11 13B1 Hzu -							
6:22	100		12		5	Mix	Mix 50 5K5 60/40002						
6:20	100		H		15	funt 4 HZU							
6:28	100		40		5.	Pump 40 BBI MUD					2.00		
Manage of the second se						(219 P	(200 Piny p 1400' W . 25 SALKS						
8:59	100		10		- 6]	Pumi	Pum/ 10 3Bl Hzu 1 1						
9:00	100		G		57		MIX 25 5KS 68/40 POZ						
9:02	100				5	Pump	Pump 17 13015 0178.						
- International Control of the Contr				Marie Control			(319 Ping @ 450° W 80505						
9.41	100		2		5		Pump 2 BB1 420						
9:42	100		50		5		MIX 80 545 60/40 POZ						
9:47	100				- 5	The second secon	Pump 4 30 10156						
							(19) Prug & Ho						
10:37		<i>*</i> **	12.5		3	Ph IX	MIX 10 3KS 60/40 toz						
		- (				(28,000)	Room ZIMA TA SUITABLE						
10:96			7, 3		- 3	TV 149	Portug (AT + Mouse hotely)						
	13.68.1	100 - 100					Job simplete To in the						
				A N			Mike MATTAI						
							1500		M,	re ma	114/		
1 + 5	1			*									